

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/22/01

Date Received: 02/15/01

Project: Metro Self Monitor, PO# M65434

Date Extracted: 02/19/01

Date Analyzed: 02/20/01

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M65434 102081-01	0.58	1.5	0.72	0.05 fb
Method Blank	<0.05	<0.05	<0.05	0.05

fb - The analyte indicated was found in the blank. Its presence may be due to laboratory contamination.

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 102039-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.24	0.25	4	0-20
Copper	mg/L (ppm)	0.15	0.16	6	0-20
Nickel	mg/L (ppm)	0.12	0.11	9	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 102039-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	0.24	95	95	80-120	0
Copper	mg/L (ppm)	5	0.15	98	97	80-120	1
Nickel	mg/L (ppm)	10	0.12	92	92	80-120	0
Zinc	mg/L (ppm)	5	<0.05	98	97	80-120	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	50	104	105	80-120	1
Copper	mg/L (ppm)	50	111	111	80-120	0
Nickel	mg/L (ppm)	100	102	104	80-120	2
Zinc	mg/L (ppm)	50	106	107	80-120	1

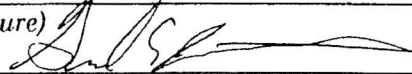
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

102081

SAMPLE CHAIN OF CUSTODY

KT 2-15-01
A73

Send Report To Gerry Thompson
 Company Alaskan Copper Works
 Address 628 South Hanford
 City, State, ZIP Seattle, WA 98134
 Phone # 382-8379 Fax # 382-4309

SAMPLERS (signature) 	
PROJECT NAME/NO. <u>METRO Self monitor</u>	PO # <u>m65434</u>
REMARKS	

Page # _____ of _____

TURNAROUND TIME

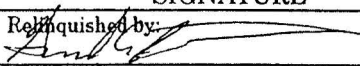
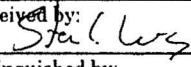
- ☐ Standard (2 Weeks)
☐ RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL

- ☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	Cr, Cu, Ni & Zn														Notes
m65434	01	2-15-01		H2O	1	✓														

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	GERRY A. Thompson	A.C.W.	2-15-01	1:40pm
Received by: 	Steven C. Wines	FBI	2-15-01	1:50
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

February 22, 2001

DUPLICATE COPY

INVOICE #01ACU0222-2

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M65434 - Results of testing requested by
Gerry Thompson for material submitted on February 15, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	<u>\$ 80.00</u>
Amount Due	\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

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3012 16th Avenue West
Seattle, WA 98119-2029
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e-mail: fbi@isomedia.com

February 22, 2001

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

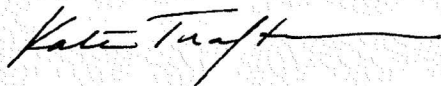
Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 15, 2001 from your Metro Self Monitor, PO# M65434 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kate Trafton
Project Manager

Enclosures
ACU0222R.DOC